Alison Learner Verification

EMPOWER YOURSELF

This is to verify that **Marcel Ray Duriez** has completed the course **Advanced Diploma in Principles of Engineering System Design** on Alison.

Marcel Ray Duriez

Alison ID: 5952157

Course Completed: Advanced Diploma in Principles of Engineering System Design

Date Of Completion: 10th May 2025

Email ID: duriez19@gmail.com

Total Study Time: 4h 19m

Scan To Verify

Final Assessment Score:
Alison courses requires at least 80% to pass the final assessment

88%

CPD Hours Completed:
CPD approved learning hours completed through this course

3-5h

Course Information

Advanced Diploma in Principles of Engineering System Design is an introductory course on Engineering System Design. This course teaches you about system engineering design and covers topics and examples to give you a full understanding of the subject. The course begins by introducing you to the modern design processes and the six functions within the design process. It then goes on to explain the various tools required for enabling creative development.

Next, the course will teach you how to implement fault-tolerance in physical architecture. You will then go on to learn a number of skills in architecture development and how different modeling processes and techniques are applied to help you with your decision making in system design. The course includes case studies of failed projects that did not apply these principles, as well as successful projects that did.

Learners taking this course will develop problem-solving skills in engineering and will use these skills to apply their knowledge of research and design to create solutions to various challenges.The world is changing, and engineers are at the forefront of this development. The majority of today's services and products have some element of engineering involved in their conception, paving the way to long, fulfilling and healthy lifestyles. Engineers must be critical yet creative; curious yet capable; as well as ready to handle the constantly changing world. If that's you, why wait? Prepare to thrive in a dynamic and fulfilling career by starting this course today.

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Modules Studied

Module 1: Introduction to System Design & Processes

Module 2: System Requirement and Development

Module 3: Functional Architecture Development & Decomposition

Module 4: Physical & Operational Architecture Development

Module 5: Advanced Diploma in Principles of Engineering System Design - First Assessment

Module 6: Qualification Planning & Design Process

Module 7: System Design

Module 8: Modeling Techniques and Simulation

Module 9: Bondgraph Modelling & Decision Making

Module 10: Advanced Diploma in Principles of Engineering System Design - Second Assessment

Module 11: Course assessment

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